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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/616,799	07/14/2000	Masatoshi Haraguchi	0828.64472	6615

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GREER, BURNS & CRAIN
300 S WACKER DR
25TH FLOOR
CHICAGO, IL 60606

EXAMINER

WOOD, WILLIAM H

ART UNIT	PAPER NUMBER
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2124

DATE MAILED: 05/21/2004

14

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No.

09/616,799

Applicant(s)

HARAGUCHI ET AL.

Examiner

William H. Wood

Art Unit

2124

— The MAILING DATE of this communication appears on the cover sheet with the correspondence address —

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,4-7,10-13,15-17 and 19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,4-7,10-13,15-17 and 19 is/are rejected.
- 7) ☒ Claim(s) 1,4-7,10-13,15-17 and 19 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 3.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claims 1, 4-7, 10-13, 15-17 and 19 are pending and have been examined.

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01 March 2004 has been entered.

Claim Objections

2. Claims 1, 4-7, 10-13, 15-17 and 19 are objected to because of the following informalities: claim limitation disorganization. There is no direct MPEP section or CFR rule that states the claims must be changed, though it is suggested in order to improve readability/searchability, should the application go to issue, a rewording/reorganization would greatly improve any issued claim. For example, sub-steps should be placed under limitation (b) and addition to limitation (a) should be placed with limitation (a).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 4-7, 10-13, 15-17 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by **Hayashi** et al. (USPN 5,396,631).

Claim 1

Hayashi disclosed a method of facilitating optimization processing in a compiler
(*column 1, lines 6-10*), comprising the steps of:

(a) storing, in a language-specific-rule table, one or more assignment rules
(*figures 5-6(b); column 8, lines 36-68; and column 9, lines 40-52*) which are
specified for one or more programming languages allowing vector representation
(*column 1, lines 17-19*);

(b) analyzing a program code which includes one or more instructions,
and is described in one of said one or more programming languages, based on
said one or more assignment rules, to obtain an analysis result (*figure 2; column
3, line 5 to column 4, line 18*); and

(c) embedding said analysis result in said program code (*column 3, lines
15-24; column 1, lines 25-34*);

wherein in said step (a), said one or more assignment rules are stored in
said language-specific-rule table as one or more language-specific-information
analyzing functions (*figures 5-6(b); column 8, lines 36-68*), and

said step (b) comprises the substeps of,

(d) reading out, from said language-specific-rule table, at least one
or said one or more language-specific-information analyzing functions

which is needed for analyzing said program code (*figures 5-6(b); column 8, lines 36-68; and column 6, line 66 to column 7, line 6; figure 3*), and

(e) determining values of or relationships between variables included in said program code, based on said at least one of said one or more language-specific-information analyzing functions read out in said step (d), and producing said analysis result which includes the determined values of or relationships between the variables (*figure 5; listed optimizations*);

wherein said step (b) further comprises the substep of,

(f) said at least one of said one or more language-specific-information analyzing functions read out in said step (d) is registered in a check function table for use in said step (e) (*figures 5-6(b); column 8, lines 36-68; check functions being the optimization functions listed*).

Claim 4

Hayashi disclosed a method according to claim 1, wherein the operation in step (b) is performed for each instruction set which is comprised of at least one of said one or more instructions (*figures 2 and 9*), and

in said step (c), said analysis result is embedded in a position preceding said each instruction set in said program code (*figure 5, at least element 22*).

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Claim 5

Hayashi disclosed a method according to claim 1, wherein said program code is a source code (*column 1, line 19; source to the assembler*).

Claim 6

Hayashi disclosed a method according to claim 1, wherein said program code is an intermediate code (*figures 11-15*).

Claims 7 and 13

The limitations of claims 7 and 13 correspond to the limitations of method claim 1 and as such are rejected in the same manner.

Claims 10-12 and 15-16

The limitations of claims 10-12 and 15-16 correspond to the limitations of method claims 4-6 and as such are rejected in the same manner.

Claims 17 and 19

The limitations of claims 17 and 19 correspond to the limitations of method claim 1 and as such are rejected in the same manner. Additionally, **Hayashi** disclosed “*syntax analysis ... to produce an intermediate code*” (*column 3, lines 15-18*).

Response to Arguments

5. Applicant's arguments with respect to claims 1, 4-7, 10-13, 15-17 and 19 have been considered but are moot in view of the new ground(s) of rejection.

Correspondence Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William H. Wood whose telephone number is (703)305-3305. The examiner can normally be reached 7:30am - 5:00pm Monday thru Thursday and 7:30am - 4:00pm every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703)305-9662. The fax phone numbers for the organization where this application or proceeding is assigned are (703)746-7239 for regular communications and (703)746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-3900.

William H. Wood
May 11, 2004

A handwritten signature in black ink, appearing to read 'TODD INGBERG', with a long diagonal line extending from the top right of the signature.

**TODD INGBERG
PRIMARY EXAMINER**